APPLICATION

FOR

UNITED STATES LETTERS PATENT

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TITLE: OPERATIONALIZING A LEARNING SOLUTION

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OPERATIONALIZING A LEARNING SOLUTION

RELATED APPLICATION

This application is related to application S/N_____
Entitled "BLENDED LEARNING EXPERIENCE TOOL AND METHOD" which is
co-owned by the same assignee, filed on the same date, and is
incorporated herein by reference.

TECHNICAL FIELD

The invention relates generally to learning systems and
particularly to methods and systems for defining a specific
learning solution.

BACKGROUND OF THE INVENTION

The development and delivery of learning solutions has
become an important component of the services industry.
Services companies provide learning solutions to individuals as
well as other companies and educational institutions. For
example, a company may be required by some legislation to train
its employees in some specific subject matter related to the
safe operation of various manufacturing or environmental
processes. Or an organization may have installed new software
for some business process and needs to train employees in its

use within the organization. Many other training needs develop and organizations are looking to service providers to fulfill these needs rather than use their own in-house education departments as the sole provider.

5 Sketch, in patent application US2002/0077884, describes providing learning solutions for eliminating functional competency gaps. An online system is used to assess the level of functional competency and identify at least one gap between the assessed level and a predefined required competency for an

10 employment function. At least one learning solution is identified that is in accordance with a preferred method of learning.

Harkey, in patent application US2002/0087346, describes forming a learning network that includes competencies as well as

15 learning objects and knowledge objects. The nodes forming the network are linked in a particular pattern for each user accessing the network to provide improved response. Data retrieval utilities access external information sources to continuously create new nodes. A query agent accesses a

20 competency node and associated linked knowledge and learning nodes in response to a user query. Each time a user submits a new query a relational table forming the dynamic interconnection of nodes is updated.

Haruhiko et al. in Japanese patent JP2003084653A describe

25 in their abstract a system for supporting cooperative learning. When the system receives a request from a learner client, it specifies the present level of learning and the role of the learner.

In spite of the aforementioned developments there remains a

30 great complexity in the development of learning solutions. In particular, the introduction of newly developed technologies for

various new modes of learning has broadened the choices available. Any systematic method of dealing with this great complexity of learning solutions, it is felt, would constitute a significant advancement in the art.

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OBJECTS AND SUMMARY OF THE INVENTION

It is therefore a principal object of the present invention
10   to enhance the learning solution art by providing a process for defining a learning solution with enhanced capabilities.

It is another object to provide a system for defining a learning solution wherein enhanced operational capabilities are possible.

15   It is a further object to provide a computer program product with enhanced capability for defining a learning solution.

It is yet another object to provide an enhanced method to operationalize a learning solution across the complexity of
20   solution elements available.

These and other objects are attained in accordance with one embodiment of the invention wherein there is provided a process for defining a learning solution, comprising the steps of providing a learning solution context, and aligning a plurality
25   of solution components to the solution context.

In accordance with another embodiment of the invention there is provided a system for defining a learning solution, comprising a computer processor, program means on the processor for providing a learning solution context, and program means on
30   the processor for aligning a plurality of solution components to the solution context.

In accordance with yet another embodiment of the invention there is provided a computer program product for instructing a processor to define a learning solution, the computer program product comprising a computer readable medium, first program

5   instruction means for providing a learning solution context, and second program instruction means for aligning a plurality of solution components to the solution context, and wherein both the program instruction means are recorded on the medium.

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BRIEF DESCRIPTION OF THE DRAWING

The figure depicts aligning supporting elements to a learning solution context in accordance with the present

15   invention.

BEST MODE FOR CARRYING OUT THE INVENTION

20   For a better understanding of the present invention together with other and further objects, advantages, and capabilities thereof, reference is made to the following disclosure and the appended claims in connection with the above-described drawings.

In the figure there is shown learning solution context 12.

25   The context is provided as a circular diagram defined in related application "BLENDED LEARNING EXPERIENCE TOOL AND METHOD." As shown in the figure the circular diagram appears as a disc tipped backward in a three dimensional diagram. A learning solution context for a specific client has specific radial width

30   for zones and inner and outer circular areas representing the relative amount of formal and informal learning respectively or

vice versa in each of the zones. Reference is made to FIG. 1 of the related application.

Solution components 14-22 are shown as stacked cylinders positioned below learning solution context 12. Solution
5 components 14-22 are generally the methods, technologies, and processes which will be used to operationalize or deliver on that learning solution depicted in a specific context 12. That is the solution components enable the solution context to be realized. However, the content of each component must be
10 defined to align with context 12, as will be explained later.

Purpose/Outcomes solution component 14 includes defining a business or organizational purpose and desired outcome of the specific learning solution. For example, the business or organizational purpose may include increasing sales, decreasing
15 errors, quality improvement, implementing a new business or manufacturing process or new business tools, increasing scores on standardized tests, or increasing GED graduates among some identified group, e.g. incarcerated individuals. Desired outcomes may include employee compliance with regulations,
20 certification in a profession, ability to perform new procedures, or completing course requirements for a degree program, e.g. Bachelor of Science.

Measurements solution component 16 includes methodologies for measuring learning effectiveness. Return on investment
25 calculations for learner performance may be specified. Other business measurements such as break even point calculations may also be selected. Other measurements may be used including an assessment of learner attitude toward a learning experience, learner acquisition of requisite knowledge and skills as defined
30 by learning objectives, or application of acquired knowledge and skills in job performance of targeted tasks.

Technology infrastructure component 18 may involve use of new or updated technology modes involving online and internet based learning techniques and modes. Use of networks, hardware, and software to provide access and delivery of learning experiences may be specified.

Resources solution component 20 are required to support the learning solution and may include identifying, selecting, or adapting source material from content and curriculum publishers. Resources may also include scheduling space and equipment, assigning trainers, locating mentors, or obtaining licenses to use software.

Process solution component 22 may include defining and implementing processes supporting formal and informal learning such as new governance committees and procedures, incentives to encourage new behaviors, or responsibilities for updates.

Each of the solution components 14-22 is configured to align that component with specific learning solution context 12. By way of example, if a zone of context 12 has a high informal learning content, then a business measurement of measurement component 16 developed in the past for formal learning may have to be removed, de-emphasized, or modified. A new measurement geared to informal learning may have to be selected or developed in measurement component 16.

Similar specifications or selections are made in each component to create a relationship within the component corresponding to the relationships within context 12. In some cases an inverse relationship is appropriate such as a decrease in a resource highly linked to formal learning if a respective zone of context 12 shows a high informal content.

Following through on the above process for each component creates an alignment of all of the components to the specific context 12 creating an optimal learning solution.

It may also be pointed out that in a reverse manner the availability of particular elements within a component may also be used in developing specific learning solution context 12.

While there have been shown and described what are at present considered the preferred embodiments of the invention, it will be obvious to those skilled in the art that various changes and modification may be made therein without departing from the scope of the invention as defined by the appended claims.